Low-light Operations on Windows COE Platforms

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Purpose

• To provide an introduction to the Low-light task and provide the opportunity to the COE community to contribute to the task

Outline

- Background
- Definitions
- Main Points
- Task Lead

Background

- COE platforms are being required to operate in low-light conditions
- Segments & applications running on a COE platform must not ruin a soldiers night vision when in low-light operations
- Segments & applications running on a COE platform must be able to operate in red or blue light conditions?

Background (con't)

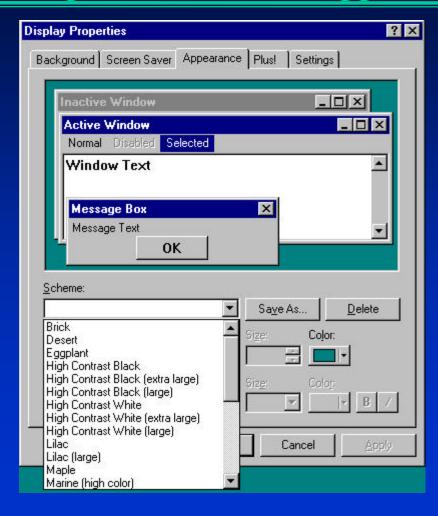
- COE I&RTS does not address low-light runtime or developer requirements
- DII User Interface Specification does not address low-light

Definitions

 Scheme - Color scheme from Control Panel Display applet, Display Properties window, Appearance tab

Color Scheme

Color scheme from Control Panel Display applet, Display Properties window, Appearance tab

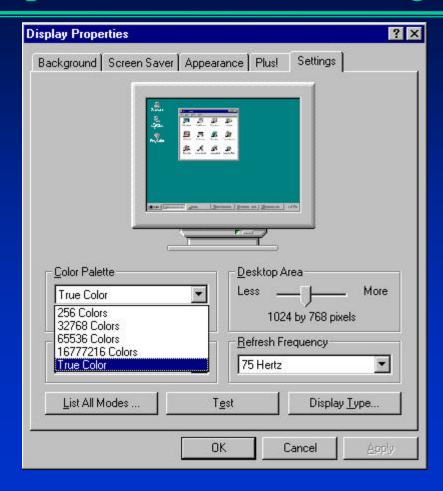


Definitions

- Scheme Color scheme from Control Panel Display applet, Display Properties window Appearance tab
- Color Palette from Control Panel Display applet, Display Properties window, Settings tab

Color Palette

Control Panel Display applet, Display Properties window, Settings tab



Definitions

- Scheme Color scheme from Control Panel Display applet, Display Properties window Appearance tab
- Color Palette from Control Panel Display applet,
 Display Properties window, Settings tab
- System Colors color and contrast settings
 Logo compliant segments must use
 - primarily the color scheme
 - Foundation Class libraries are compliant
 - queried using GetSysColor

System Colors

HKEY_CURRENT_USER\Control Panel\Colors

Background =0 128 128" GrayText =128 128 128

AppWorkSpace =128 128 128" Hilight =0 0128

HilightText =255 255 255 =255 255 255" Window

WindowText =0 0 0" InactiveTitleText =192 192 192

ButtonHilight =255 255 255 =192 192 192" Menu

 $=0 \ 0 \ 0$ MenuText =0 0 0" InfoText

InfoWindow = 25 5 25 5 225 ActiveTitle =0 0 128"

ButtonLight =192 192 192 InactiveTitle =128 128 128"

=255 255 255" ButtonDkShadow =0 0 0 TitleText

ActiveBorder =192 192 192 ButtonText =0 0 0

InactiveBorder =192 192 192

WindowFrame =0 0 0

Scrollbar =192 192 192

ButtonFace =192 192 192

ButtonShadow =128 128 128

Main Points

- Assemble team to:
 - Develop requirements
 - Submit requirements to SRS
 - Design operational implementation
 - Review design with Services and DISA
 - Develop low-light segment
 - Field segment
 - Update I&RTS
 - Update DII User Interface Specification

Low-light Task Lead

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